

MICROANLAGE

UTS-Nr.: 999 QUELLE
Best.Nr.: 3042041/01
Ger.Bez.: UNIVERSUM MICRO-ANLAGE

GKz: G GERAET
WGT: 650 MICRO-SYSTEME
KD-Sektor: R RUNDFUNK
BaumNr.: 00 KEIN DIAGNOSEBAUM VORHANDEN
Klassierung: STK STEREOKOMBINATION
IFW-FehlerGru.: 205 RDF.,VERST.,TB.,PHONO,CD,CB
Type/Privileg/Universum.Nr VTC-CD1023
Beschreibung
VK-Preis: 119.95

Serviceart: 01 PROPECTIS
Garantie fuer Kunden 24 Monate
Sondervereinbarungen: 0 SIEHE SERVICEART

Garantiereparatur 0004063 PROPECTIS GMBH
Sondervereinbarungen: 0 SIEHE SERVICEART

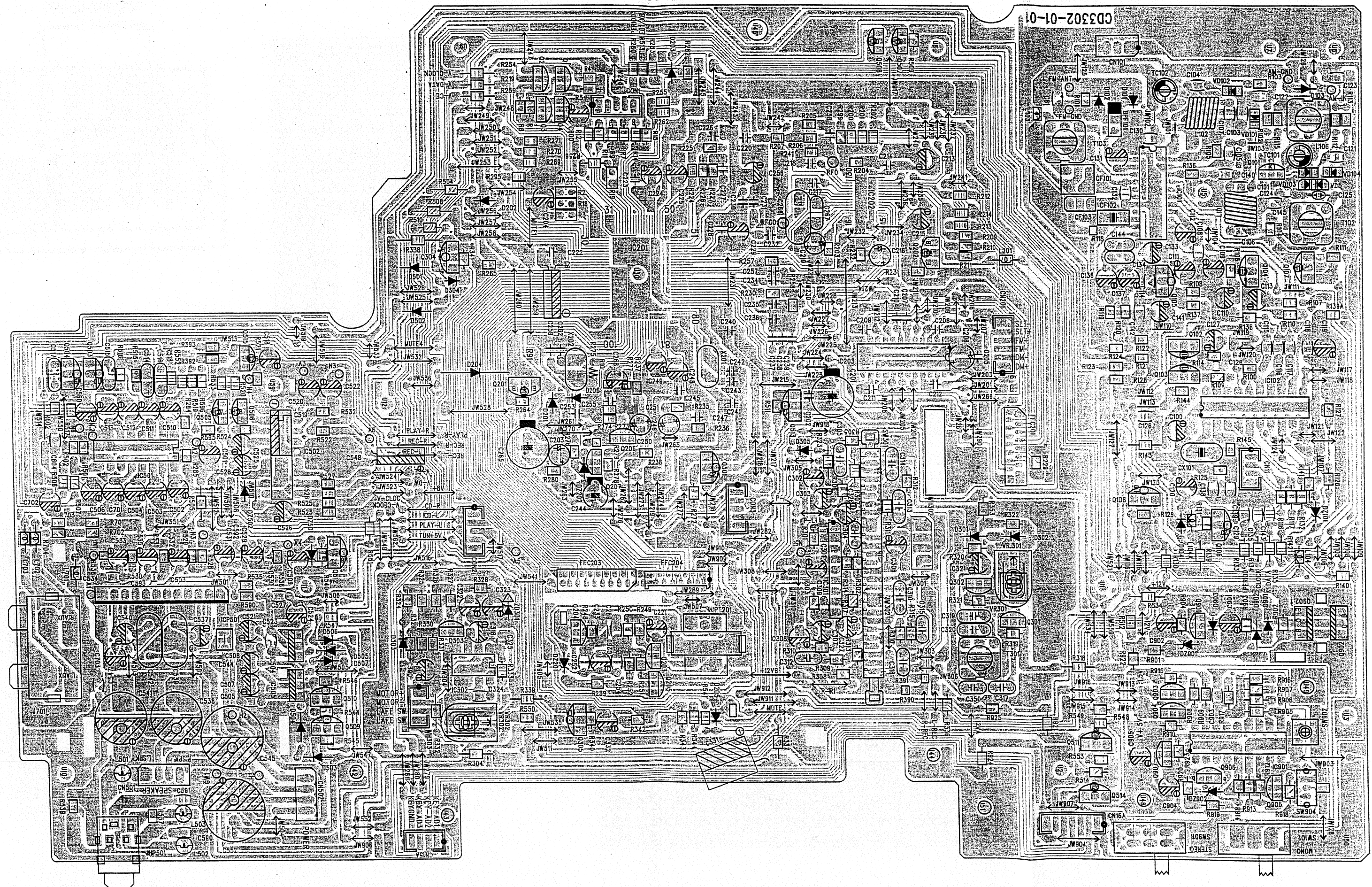
Katalog	Seite
Erst 024 HAUPTKATALOG H/W 2002	0000
Letzt 000 NOCH IM AKTUELLEN KATALOG	0000

Geraete Info:

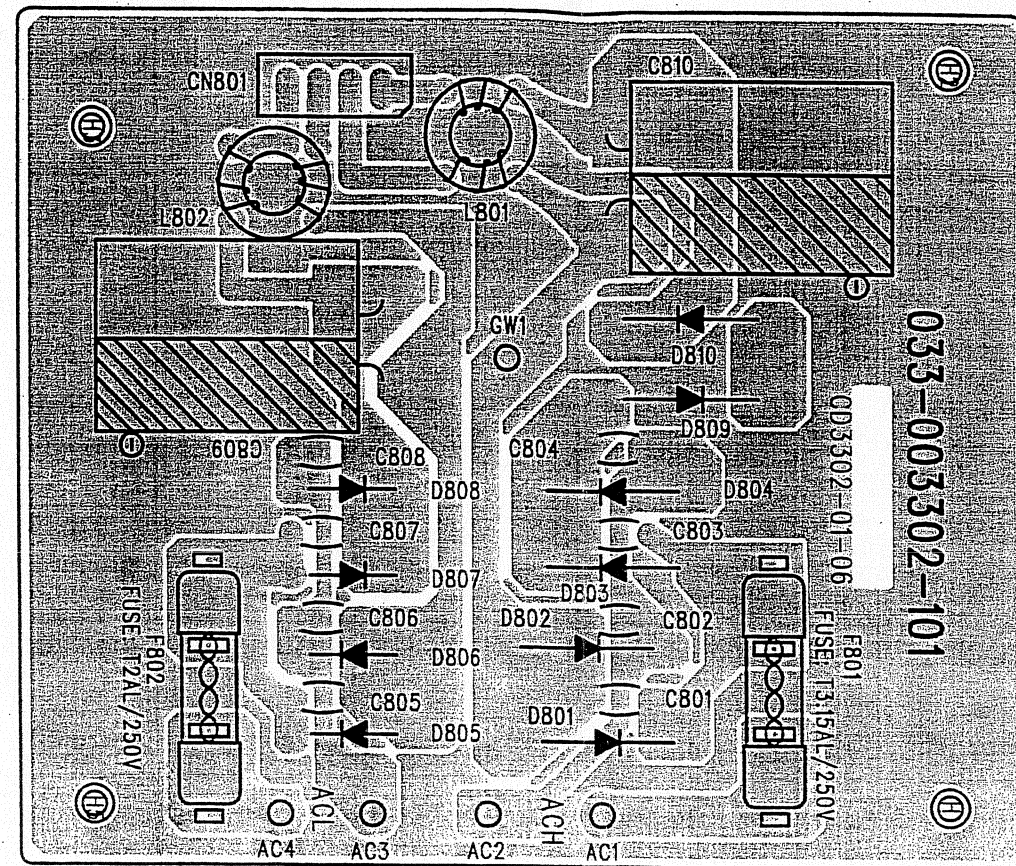
Technische Daten:

Fehler:

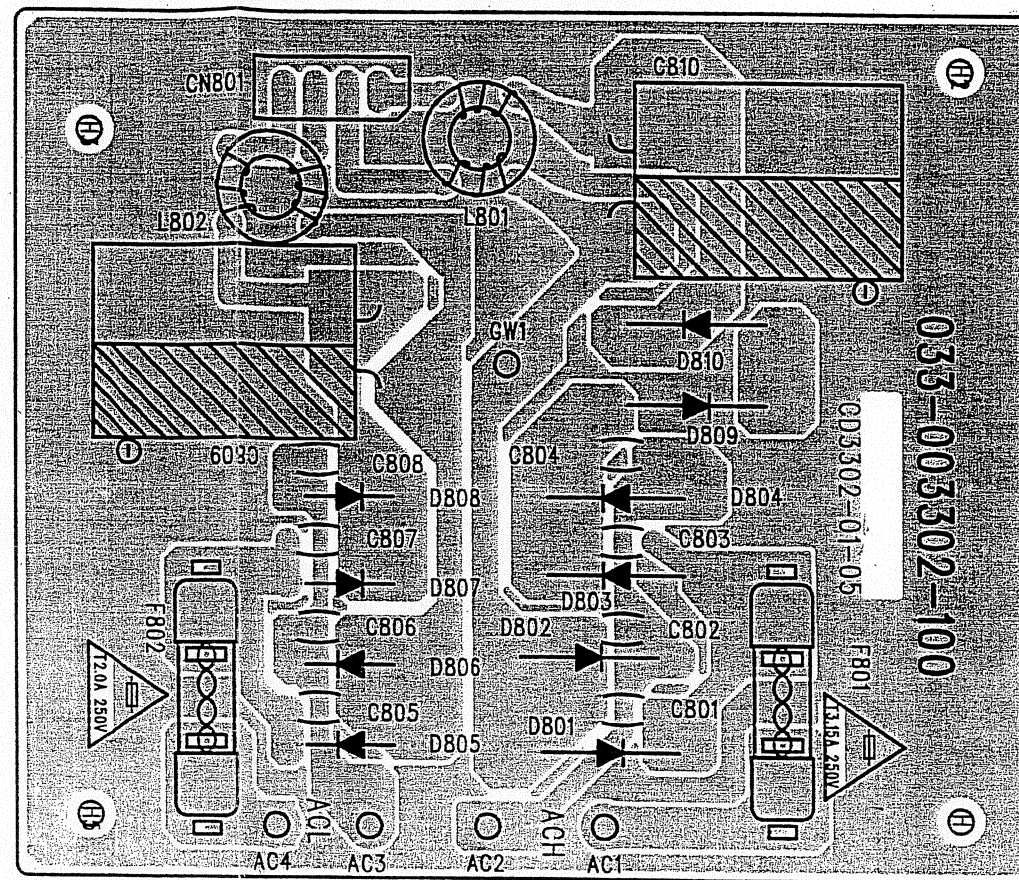
MAIN PCB
CD3302-01-01



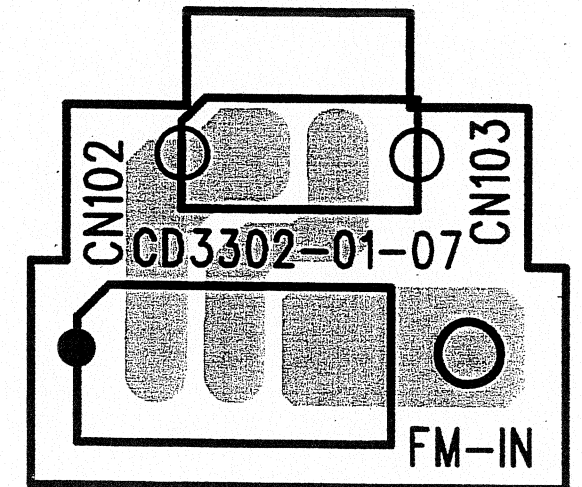
RECTIFIER PCB
CD3302-01-06
(For VDE)



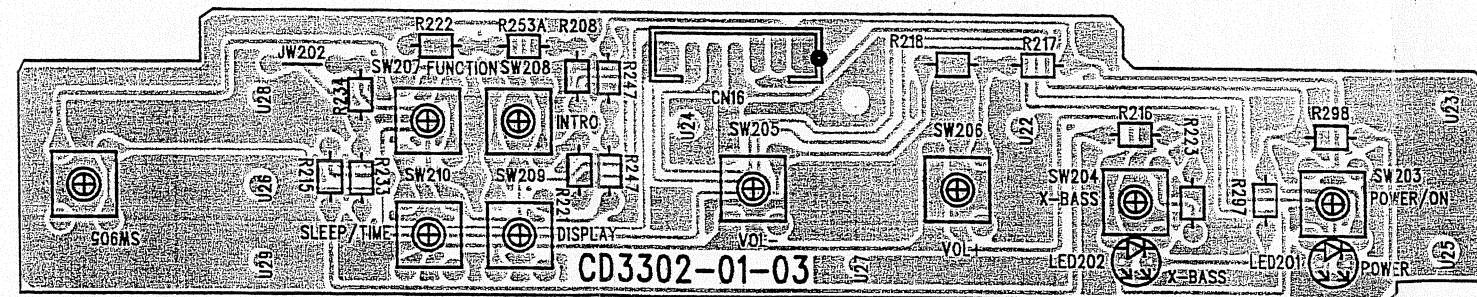
RECTIFIER PCB
CD3302-01-05
(For UL)



CONNECTION PCB
CD3302-01-07

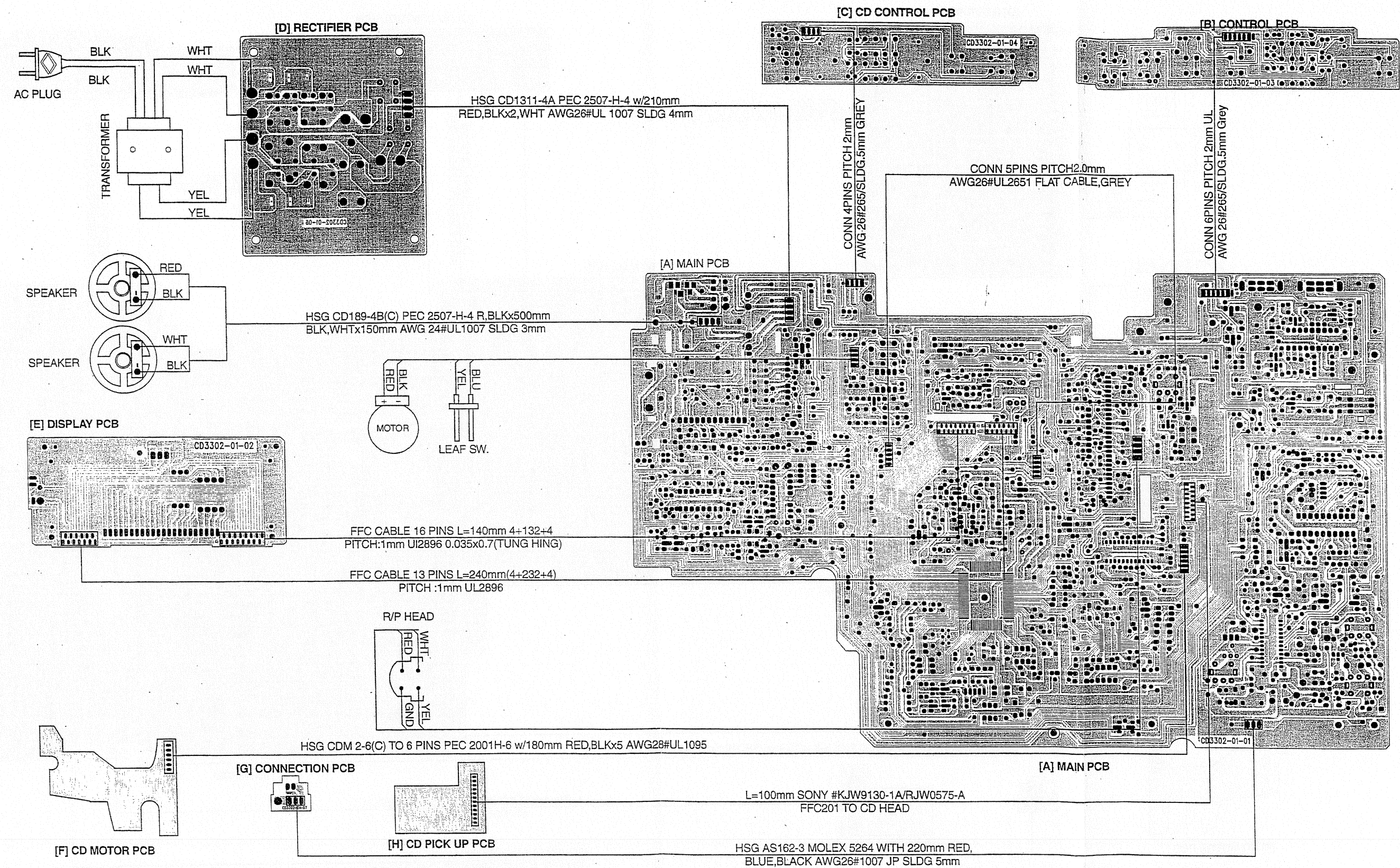


CONTROL PCB
CD3302-01-03

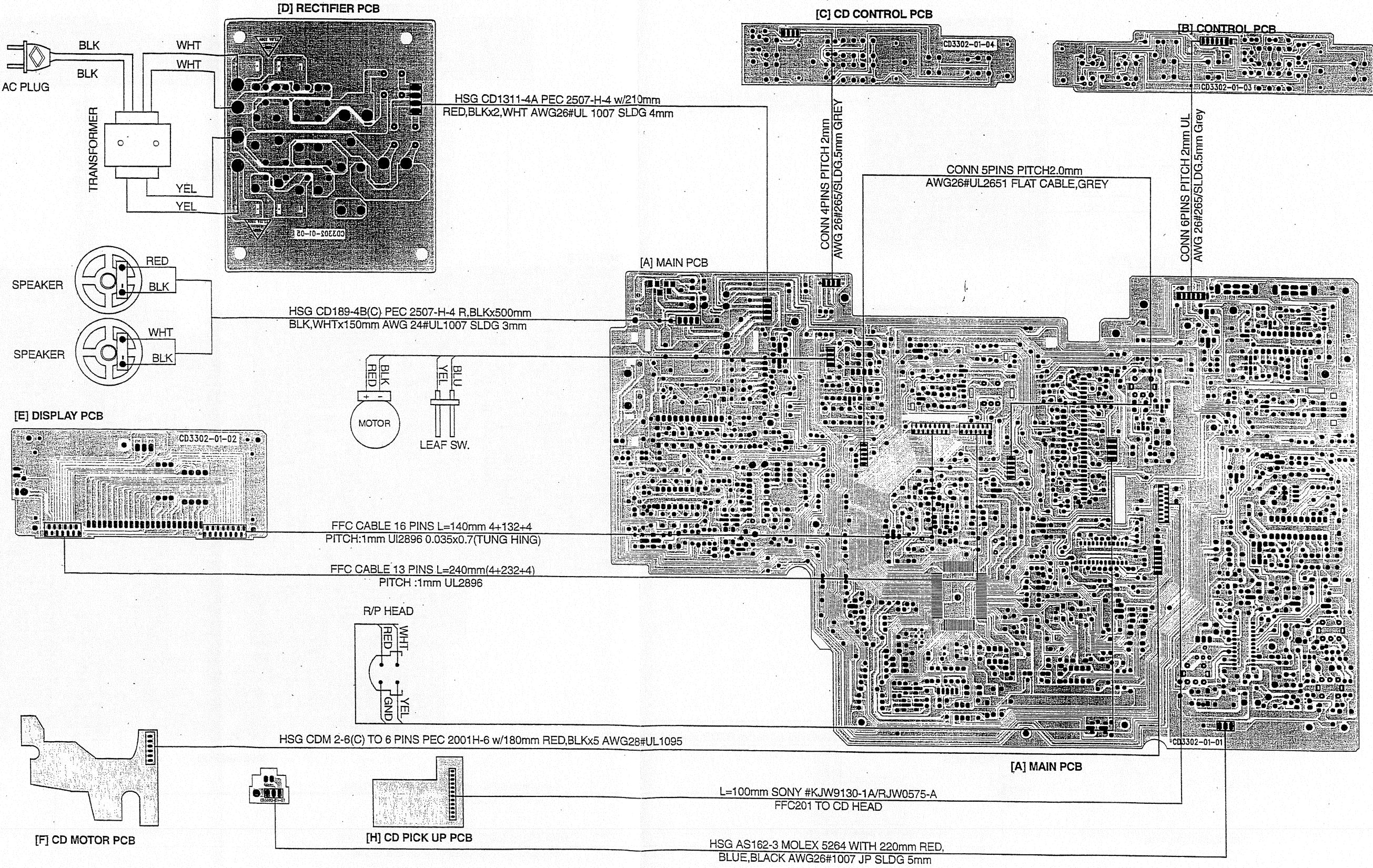


WIRING DIAGRAMS

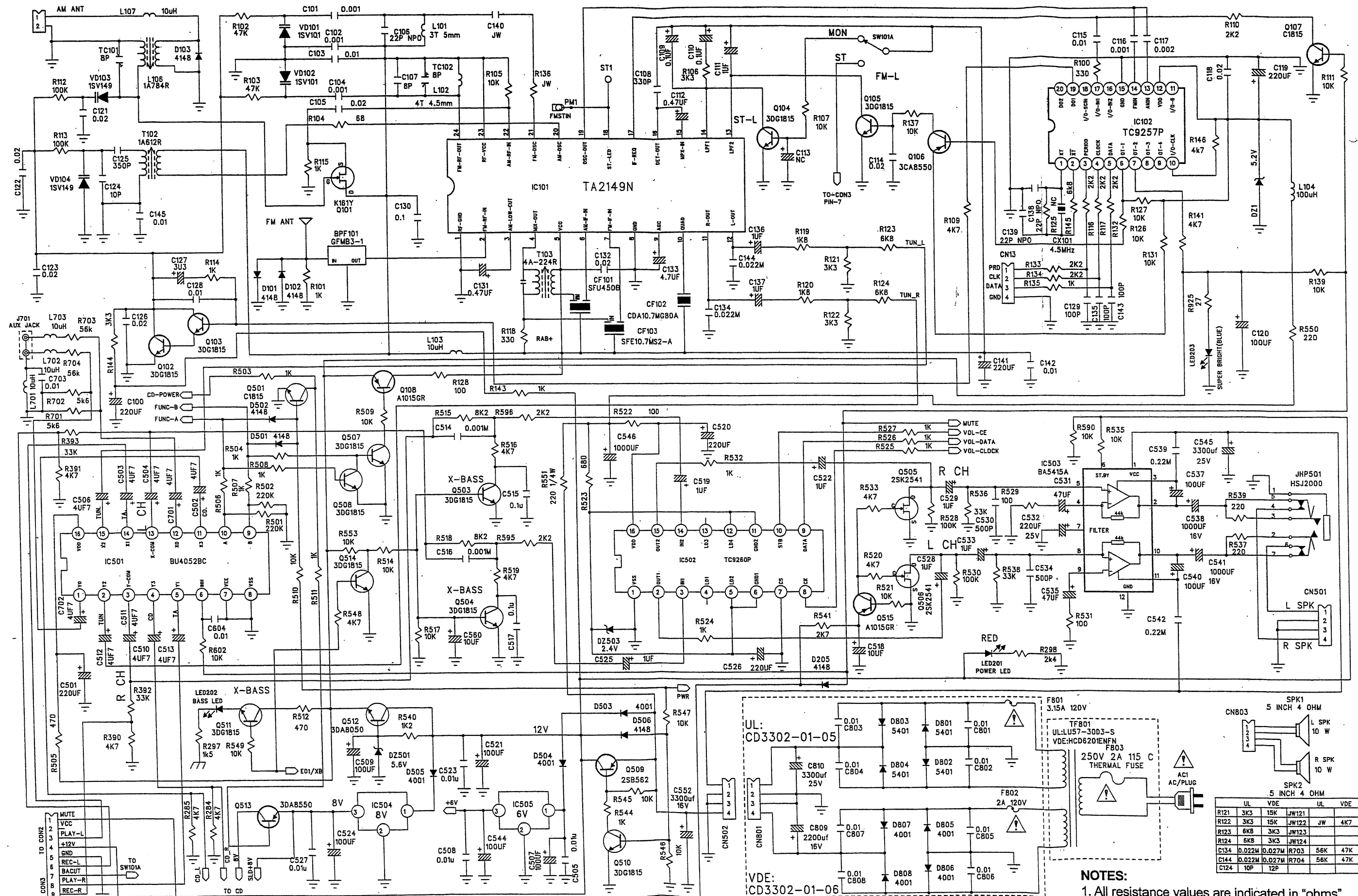
(For VDE Version)



(For UL Version)



TUNER, POWER AMP. SECTION

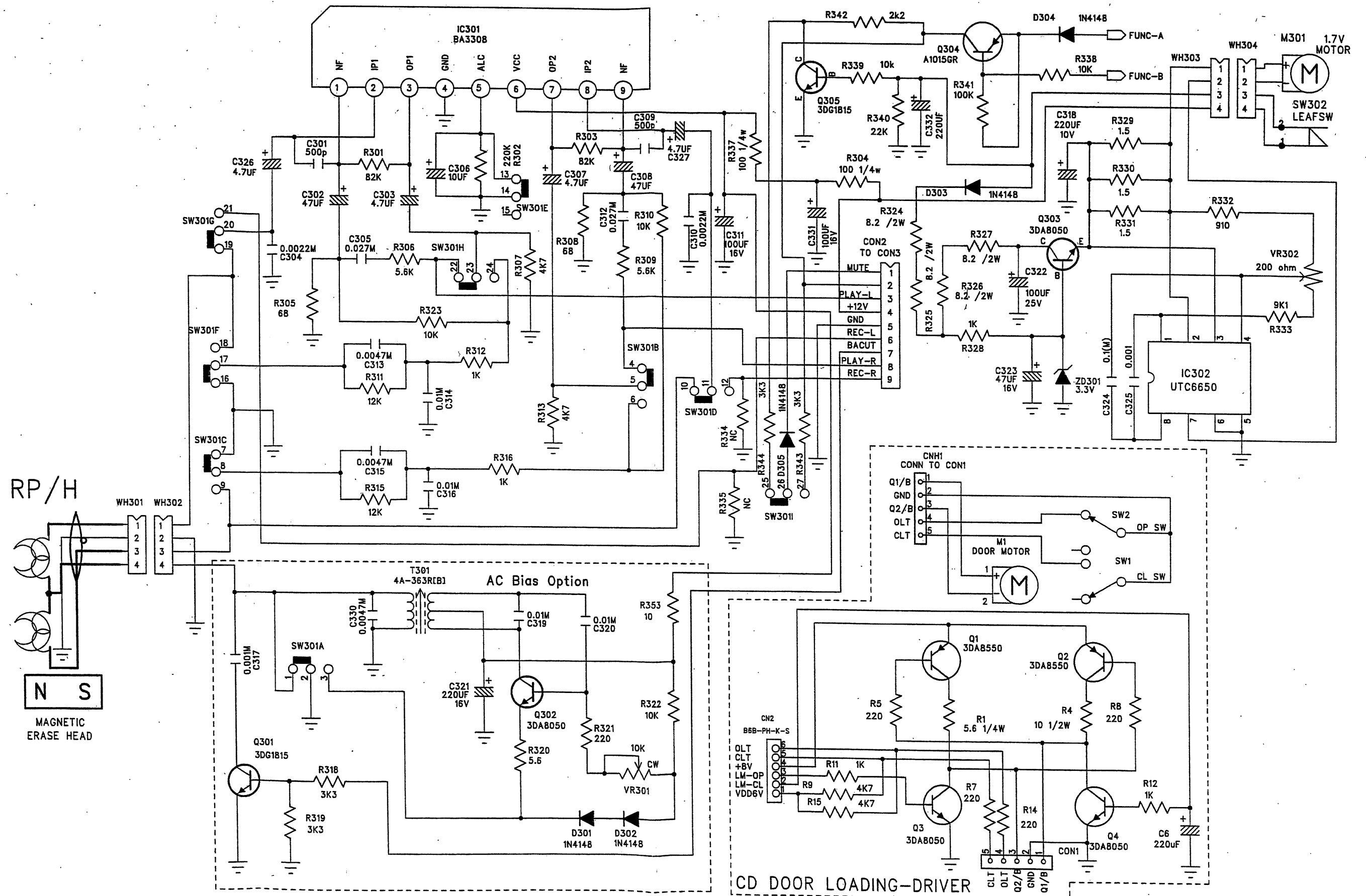


NOTES:

1. All resistance values are indicated in "ohms" (k=1000 ohms. M=1000 kohms).
2. All capacitance values are indicated in "μF" ($p=10^{-6}$ μF).

UL		VDE		UL		VDE	
R121	3K3	15K		JW121			
R122	3K3	15K		JW122	JW	4K7	
R123	6K8	3K3		JW123			
R124	6K8	3K3		JW124			
C134	0.022M	0.027M		R703	56K	47K	
C144	0.022M	0.027M		R704	56K	47K	
C124	10P	12P					

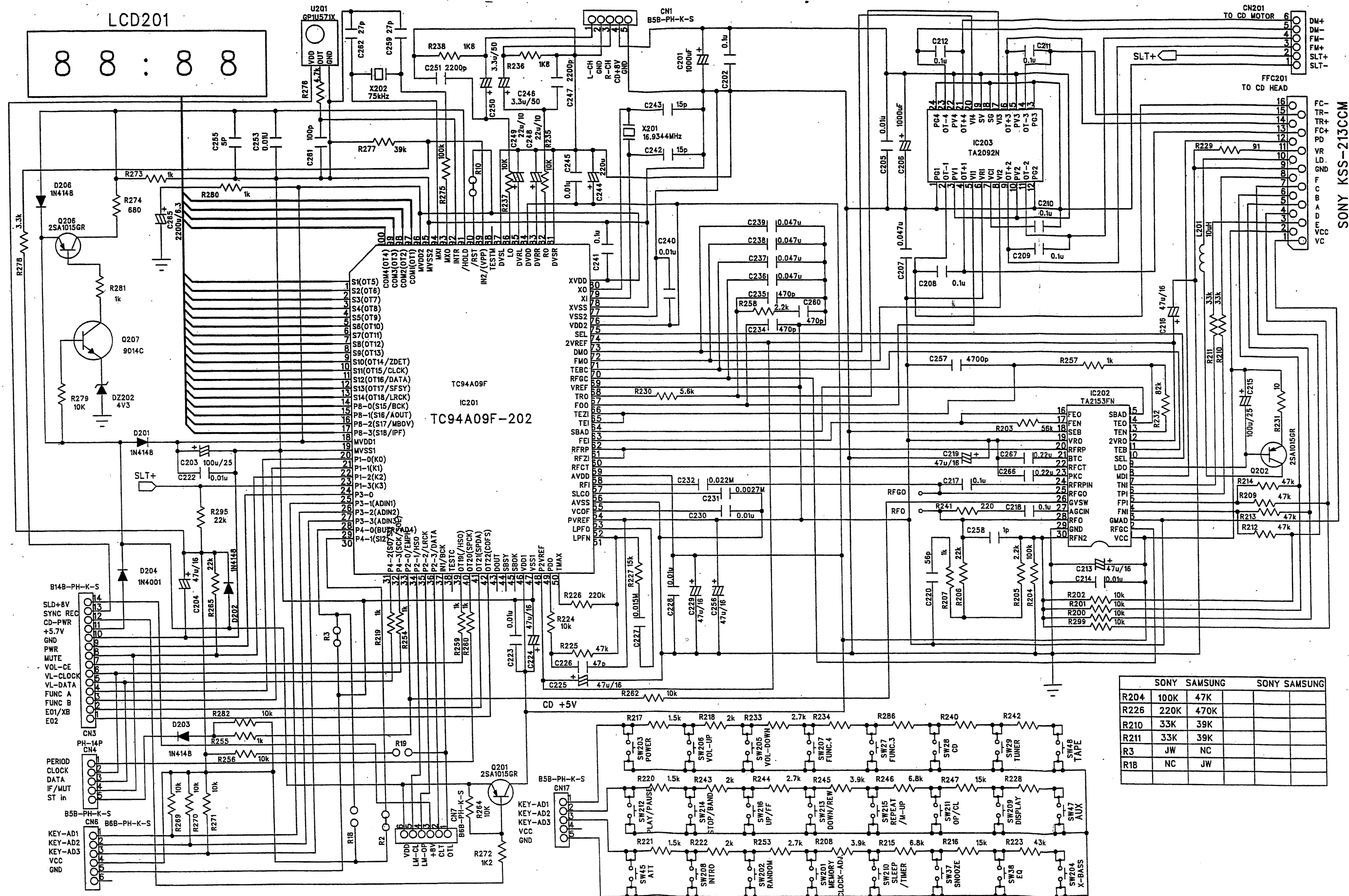
CASSETTE SECTION



NOTES:

1. All resistance values are indicated in "ohms"
(k=1000 ohms. M=1000 kohms).
2. All capacitance values are indicated in "uF" (p=10⁻⁶ uF).

CD & CPU SECTION



SONY KSS-213CCM

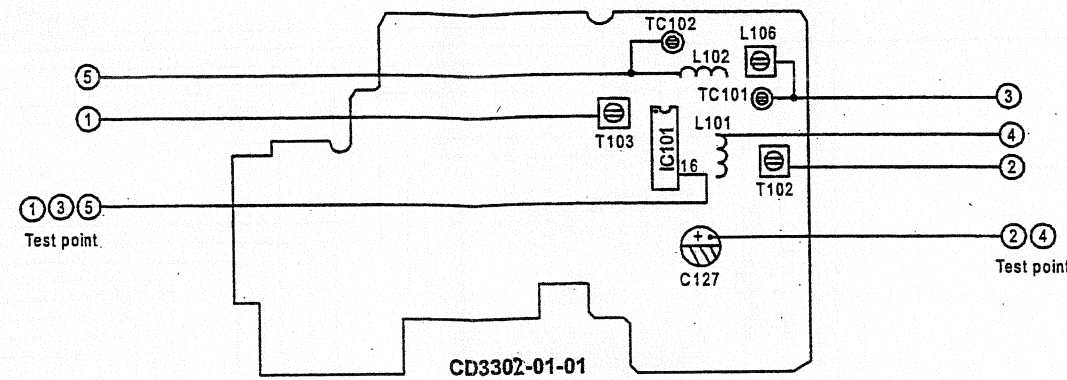
NOTES:

1. All resistance values are indicated in "ohms" (k=1000 ohms. M=1000 kohms).
2. All capacitance values are indicated in "μF" (p=10⁻⁶ μF).

	SONY	SAMSUNG	SONY	SAMSUNG
R204	100K	47K		
R226	220K	470K		
R210	33K	39K		
R211	33K	39K		
R3	JW	NC		
R18	NC	JW		

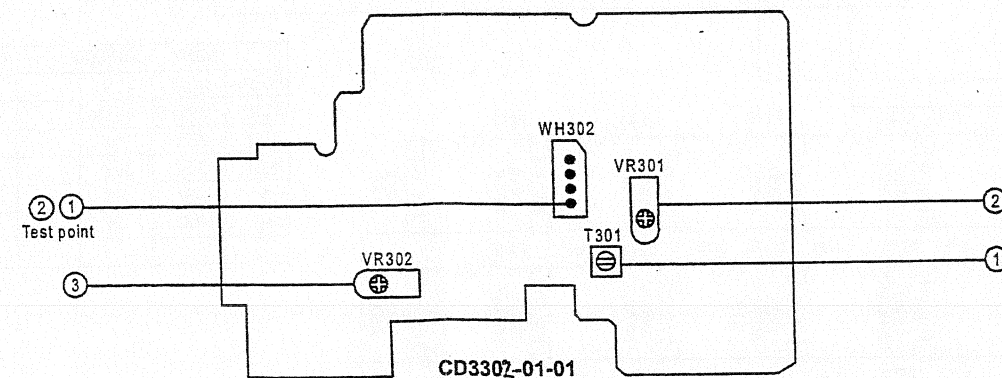
ALIGNMENT SET-UP PROCEDURES

TUNER SECTION



1. AM IF Adjustment
Test point: IC101 (TA2149N) 16 PIN
Adjustment location: T103
T103 ----- $450 \pm 3\text{kHz}$
2. AM Frequency Range Adjustment
Test point: C127
Adjustment location: T102
Set the frequency to be 520kHz (For UL) or 522kHz (For VDE).
Adjust T102 so that test point voltage is $1.5 \pm 0.1\text{V}$.
Change frequency to be 1620kHz (For UL) or 1710kHz (For VDE), and observe test point voltage. It should be less than 8.5V.
3. AM Tracking Adjustment
Test point: IC101 (TA2149N) 16 PIN
Adjustment location: L106, TC101
L106 ----- 600kHz (For UL)
L106 ----- 612kHz (For VDE)
TC101 ----- 1400kHz (For UL)
TC101 ----- 1404kHz (For VDE)
4. FM Frequency Range Adjustment
Test point: C127
Adjustment location: L101
Set the frequency to be 87.5MHz.
Adjust L101 so that test point voltage is $2.3 \pm 0.1\text{V}$.
Change frequency to be 108MHz, the voltage of test point should be less than 8.5V.
5. FM Tracking Adjustment
Test point: IC101 (TA2149N) 16 PIN
Adjustment location: L102, TC102
L102 ----- 90.1MHz waveform max.
TC102 ----- 106MHz waveform max.

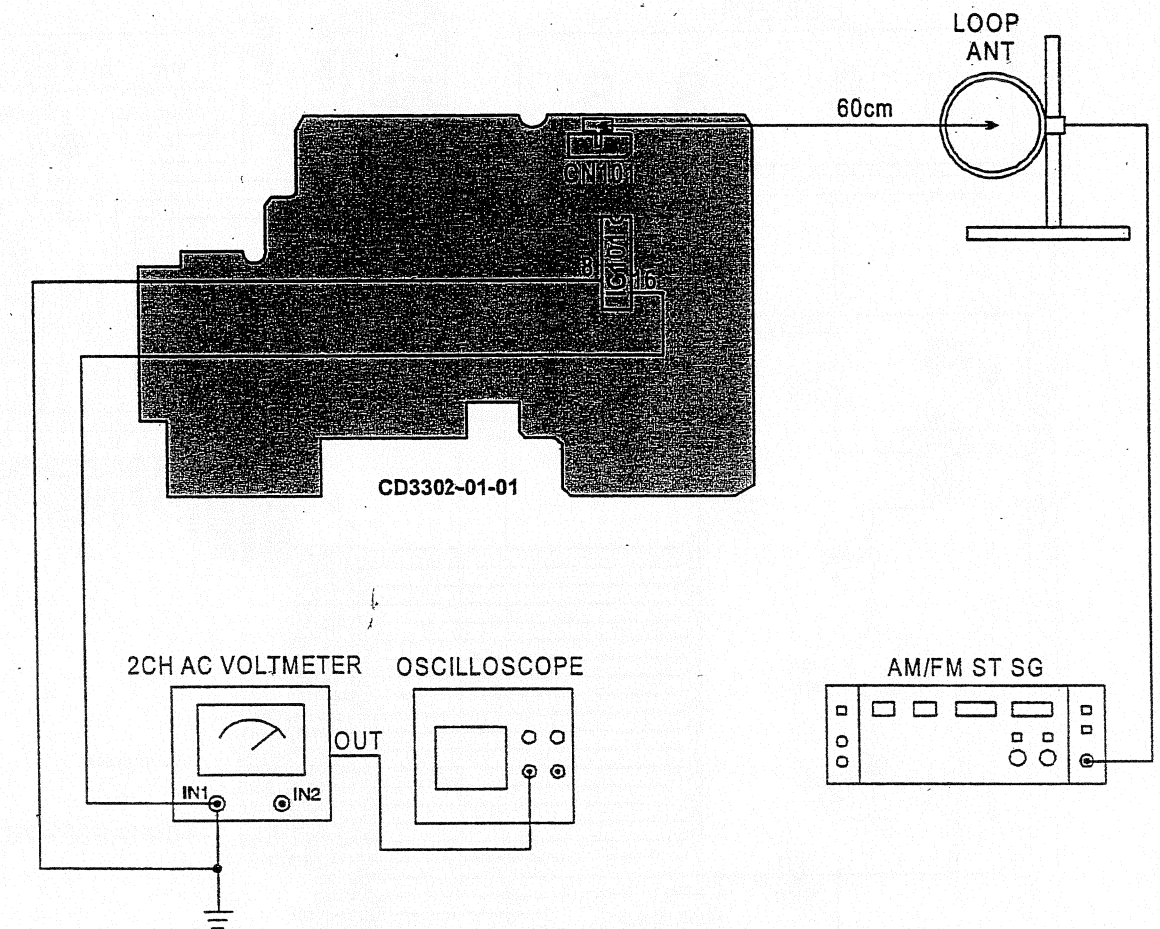
CASSETTE SECTION



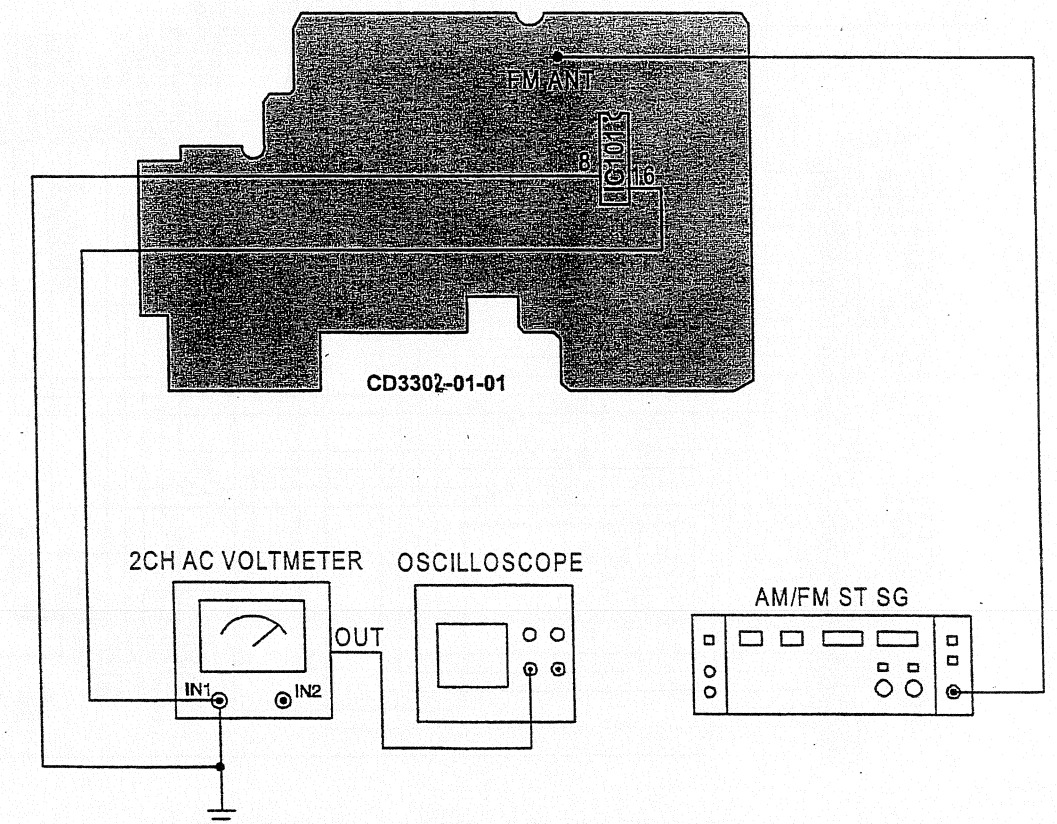
1. AC Bias frequency Adjustment
Test point: WH302 4 PIN
Adjustment location: T301
T301 ----- $60 \pm 1\text{kHz}$
2. AC Bias Level Adjustment
Test point: WH302 4 PIN
Adjustment location: VR301
VR301 ----- 14V
3. Tape Speed Adjustment
Test point: headphone jack
Adjustment location: VR302
VR302 ----- $3000 \pm 20\text{Hz}$

EQUIPMENT CONNECTION DIAGRAMS

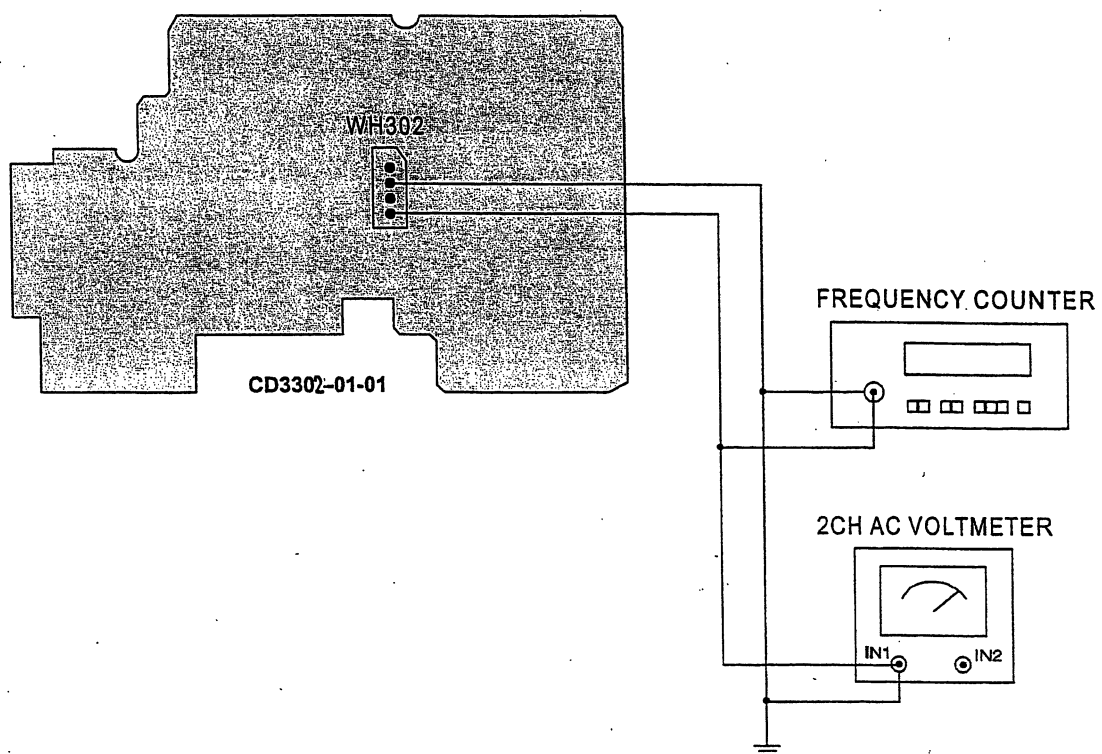
MW SECTION



FM SECTION



CASSETTE SECTION



VOLTAGE CHART

THE MEASURED VALUE IS DC VOLTAGE

UNIT: V

TUNER & POWER SECTION

TEST CONDITION: SET AM/FM TUNER ON ONE FREQUENCY

IC101 (TA2149N)

PIN'S NUMBER	1	2	3	4	5	6	7	8
AM	0	0	1.05	3.85	3.88	3.21	3.88	0
FM	0	0.77	0.31	3.36	3.40	3.05	3.41	0
PIN'S NUMBER	9	10	11	12	13	14	15	16
AM	0.22	3.76	1.22	1.21	0	0.72	0.70	1.10
FM	0.60	2.63	1.21	1.19	2.81	2.73	0.70	0.80
PIN'S NUMBER	17	18	19	20	21	22	23	24
AM	1.43	4.07	2.33	3.87	3.88	3.87	3.88	3.88
FM	0.87	0.11	1.85	3.40	3.50	3.41	3.40	3.40

TRANSISTOR	Q102(3DG1815)			Q103(3DG1815)		
	E	C	B	E	C	B
AM	0	2.54	0.64	0.64	2.54	1.16
FM	0	5.71	0.63	0.64	5.71	1.13
TRANSISTOR	Q105(3DG1815)			Q106(3CA8550)		
	E	C	B	E	C	B
AM	0	0	0.63	2.08	2.08	1.46
FM	0	2.79	0.00	4.92	0	5.13

IC102 (TC9257P)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
FM	2.61	2.63	4.65	4.65	0.00	5.12	0	0	6.25	5.14
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
FM	0	5.13	0	2.52	0	0	2.48	0	1.12	0.32

IC501 (BU4052BC)

PIN'S NUMBER	1	2	3	4	5	6	7	8
TUNER	0	0	0	0	0	0	0	0
CD	0	0	0	0	0	0.23	0	0
CASSETTE	0	0	0	0	0	0	0	0
AUX	0	0	0	0	0	0	0	0
PIN'S NUMBER	9	10	11	12	13	14	15	16
TUNER	4.64	0	0	0	0	0	0	5.00
CD	4.46	4.56	0	0	0	0	0	4.95
CASSETTE	0	4.26	0	0	0	0	0	5.00
AUX	0	0	0	0	0	0	0	5.01

IC502 (TC9260P)

PIN'S NUMBER	1	2	3	4	5	6	7	8
FM	0	2.45	2.44	2.45	2.45	2.44	0	4.65
PIN'S NUMBER	9	10	11	12	13	14	15	16
FM	4.65	0	2.45	2.45	2.44	2.44	2.45	6.35

VOLTAGE CHART - CONTINUED

IC503 (BA5415A)

PIN'S NUMBER	1	2	3	4	5	6
FM	18.27	9.14	15.60	0.59	0	5.96
PIN'S NUMBER	7	8	9	10	11	12
FM	16.44	0	0.59	15.66	9.12	0

IC504 (NJM7808FA)

PIN'S NUMBER	1	2	3
CD PLAY	8.06	0	10.80

TRANSISTOR	Q511(3DG1815)			Q512(3DA8050)			Q514(3DG1815)		
	E	C	B	E	C	B	E	C	B
X-BASS ON	3.73	4.21	4.37	5.01	11.61	5.60	0	0	0.69

TRANSISTOR	Q513(3DA8550)		
	E	C	B
PLAY	7.84	7.76	7.03

IC505 (L7806CV)

PIN'S NUMBER	1	2	3
FM	6.00	0	10.40

TRANSISTOR	Q509(2SB562)			Q510(3DG1815)		
	E	C	B	E	C	B
FM	11.47	11.65	10.68	0	0	0.69

CASSETTE SECTION

TEST CONDITION: TAPE PLAY

IC301 (BA-3308)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9
PLAY	1.81	0	1.82	0	0	10.53	1.83	0	1.82

IC302 (UTC6650)

PIN'S NUMBER	1	2	3	4	5	6	7	8
PLAY	1.32	2.60	2.65	2.48	0	0	0.91	0.73

TRANSISTOR	Q301(3DG1815)			Q302(3DA8050)		
	E	C	B	E	C	B
REC.	0	22.60	0	0.12	6.50	0.64

TRANSISTOR	Q303(3DA8050)		
	E	C	B
PLAY	2.65	7.84	3.26

VOLTAGE CHART - CONTINUED

CD & CPU SECTION

TEST CONDITION: CD PLAY

IC203 (TA2092N)

PIN'S NUMBER	1	2	3	4	5	6	7	8
PLAY	0	3.97	7.75	3.30	1.86	1.98	3.63	1.95
PIN'S NUMBER	9	10	11	12	13	14	15	16
PLAY	3.50	7.75	3.73	0	0	3.66	7.75	3.66
PIN'S NUMBER	17	18	19	20	21	22	23	24
PLAY	1.98	0	7.75	2.05	3.86	7.77	3.45	0

IC202 (TA2153FN)

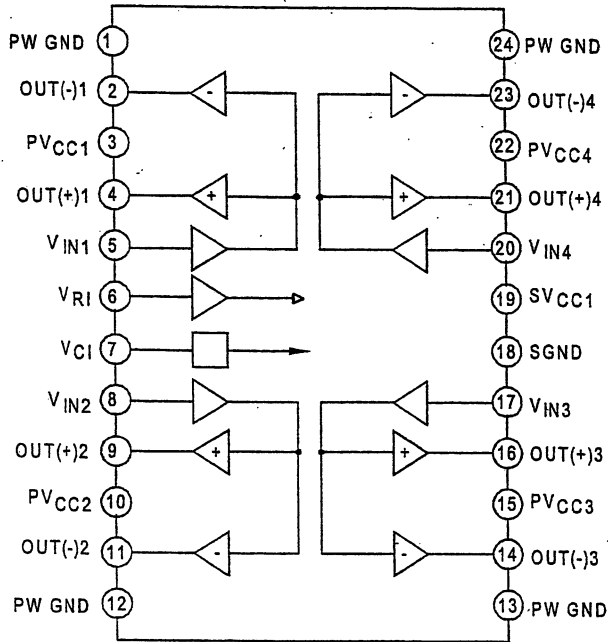
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
PLAY	4.19	2.14	1.98	2.02	1.63	2.01	2.01	0.22	1.59	2.11
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
PLAY	1.54	3.92	6.03	6.17	1.96	2.03	1.88	0.00	1.98	2.30
PIN'S NUMBER	21	22	23	24	25	26	27	28	29	30
PLAY	2.27	1.59	1.60	2.00	1.94	3.87	3.10	1.99	0	2.00

IC201 (TC94A09F-202)

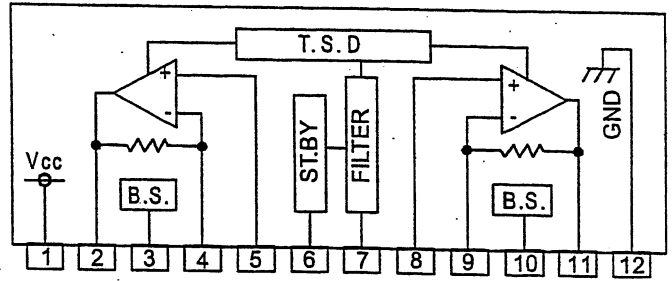
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
PLAY	2.25	2.25	2.25	2.21	2.24	2.24	2.24	2.24	2.21	2.23
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
PLAY	2.13	2.22	2.24	2.24	2.22	1.94	2.23	2.21	4.47	0
PIN'S NUMBER	21	22	23	24	25	26	27	28	29	30
PLAY	3.52	3.28	0.24	4.64	4.27	4.65	4.55	4.57	4.66	4.67
PIN'S NUMBER	31	32	33	34	35	36	37	38	39	40
PLAY	4.46	4.46	4.45	0	0	0.23	5.01	0	0	4.46
PIN'S NUMBER	41	42	43	44	45	46	47	48	49	50
PLAY	4.35	0	0	0	4.20	4.20	0	3.92	1.98	2.03
PIN'S NUMBER	51	52	53	54	55	56	57	58	59	60
PLAY	2.01	1.87	1.98	1.72	0	1.97	2.00	4.20	2.26	2.26
PIN'S NUMBER	61	62	63	64	65	66	67	68	69	70
PLAY	2.23	2.02	1.96	1.98	1.97	1.86	1.99	1.98	2.10	2.04
PIN'S NUMBER	71	72	73	74	75	76	77	78	79	80
PLAY	1.98	2.07	3.91	2.12	4.19	0	0	2.05	2.06	4.47
PIN'S NUMBER	81	82	83	84	85	86	87	88	89	90
PLAY	0.00	2.20	2.10	4.21	2.08	2.20	0	0	0	4.47
PIN'S NUMBER	91	92	93	94	95	96	97	98	99	100
PLAY	2.64	0.27	2.27	0.46	0	4.47	2.09	2.05	2.05	2.23

IC LEAD IDENTIFICATION AND INTERNAL DIAGRAMS

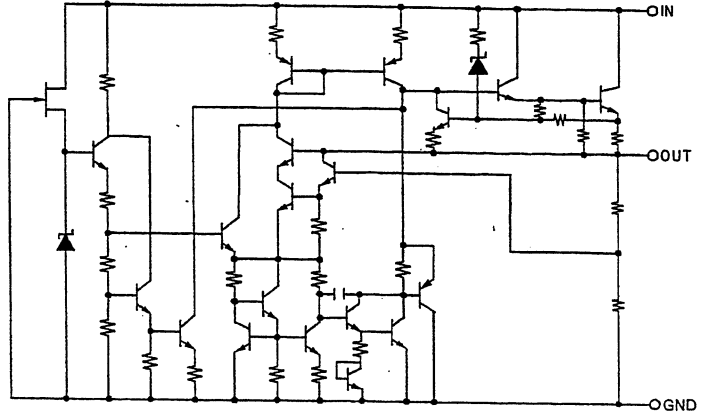
IC203 TA2092N



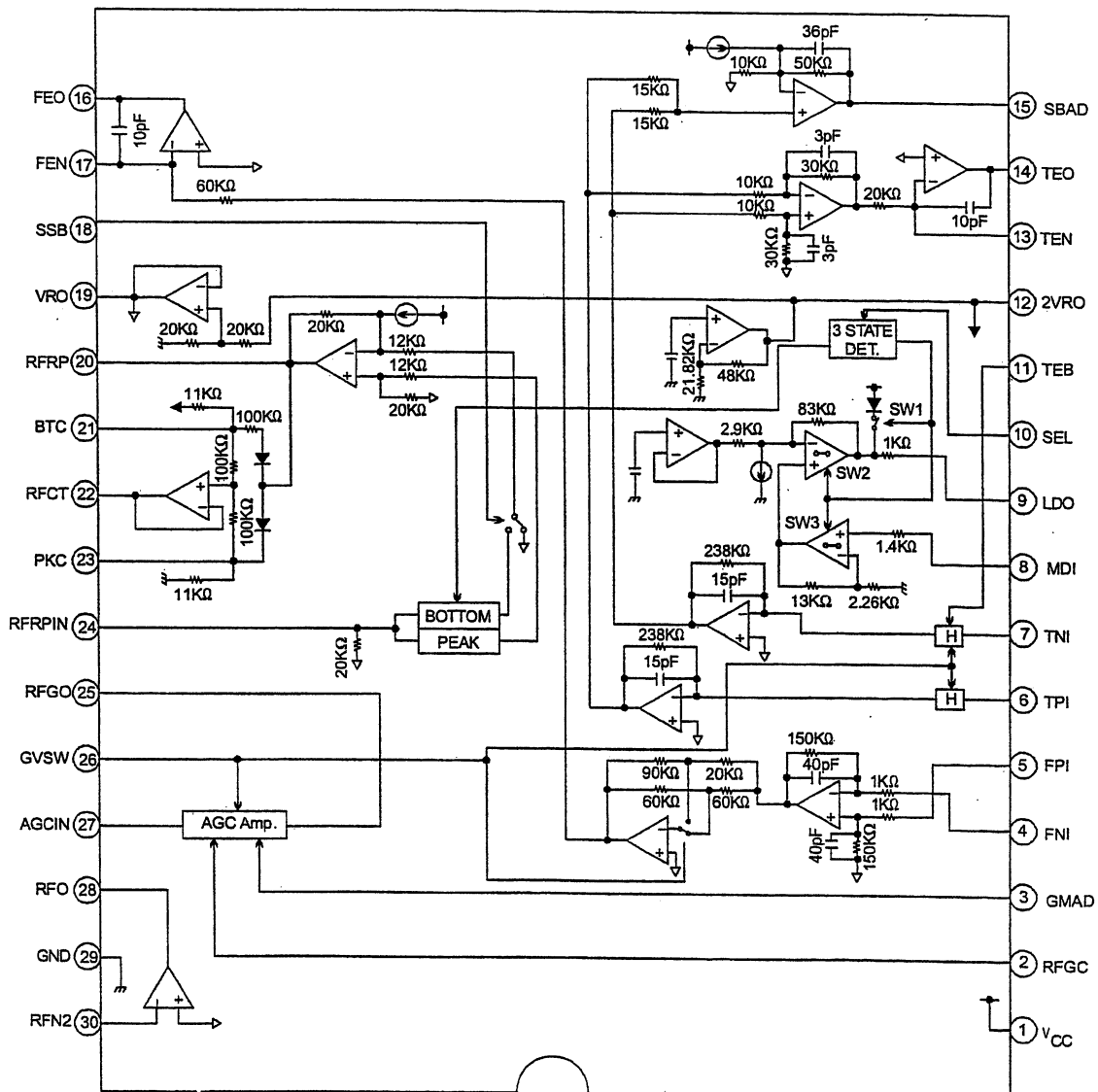
IC503 BA5415A



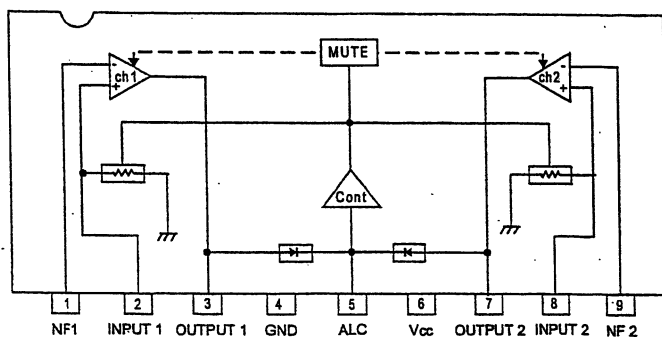
IC504 NJM7808FA



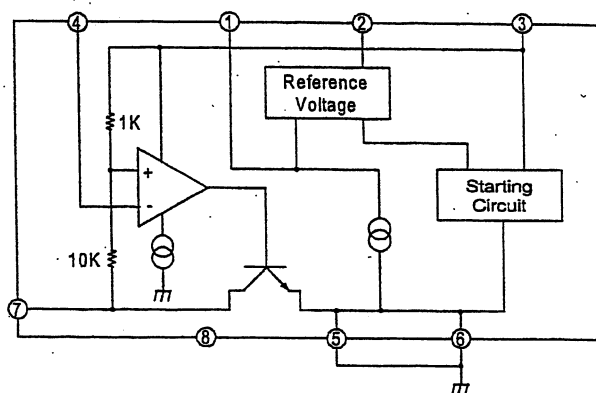
IC202 TA2153FN



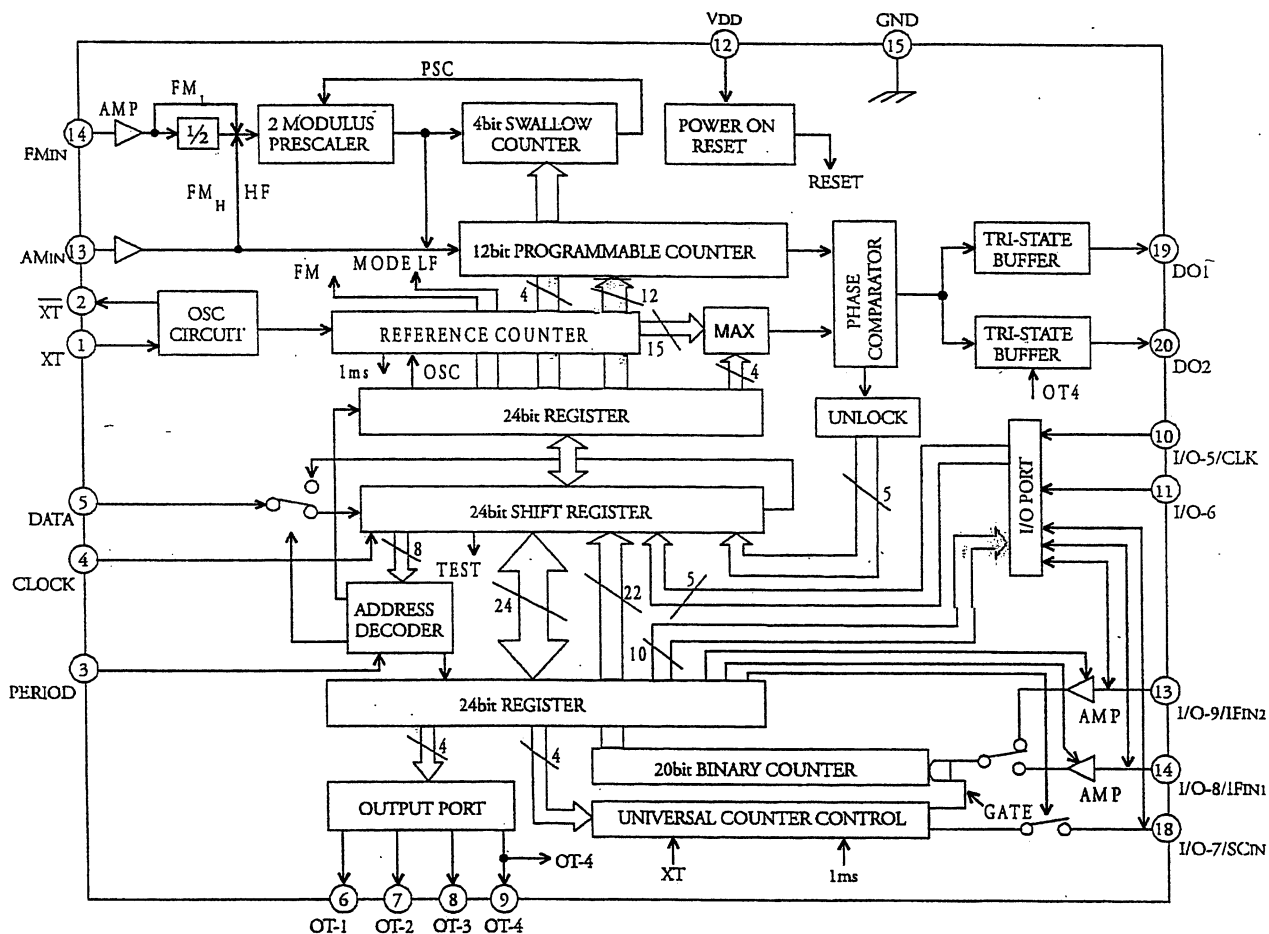
IC301 BA-3308



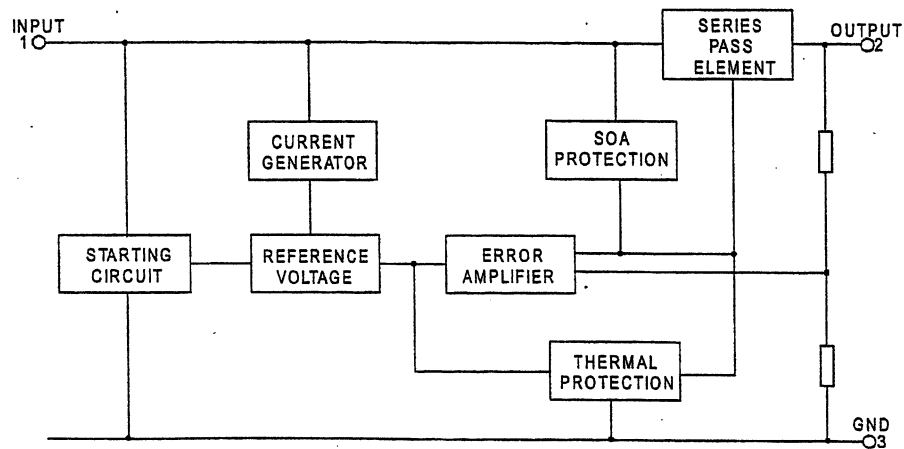
IC302 UTC6650

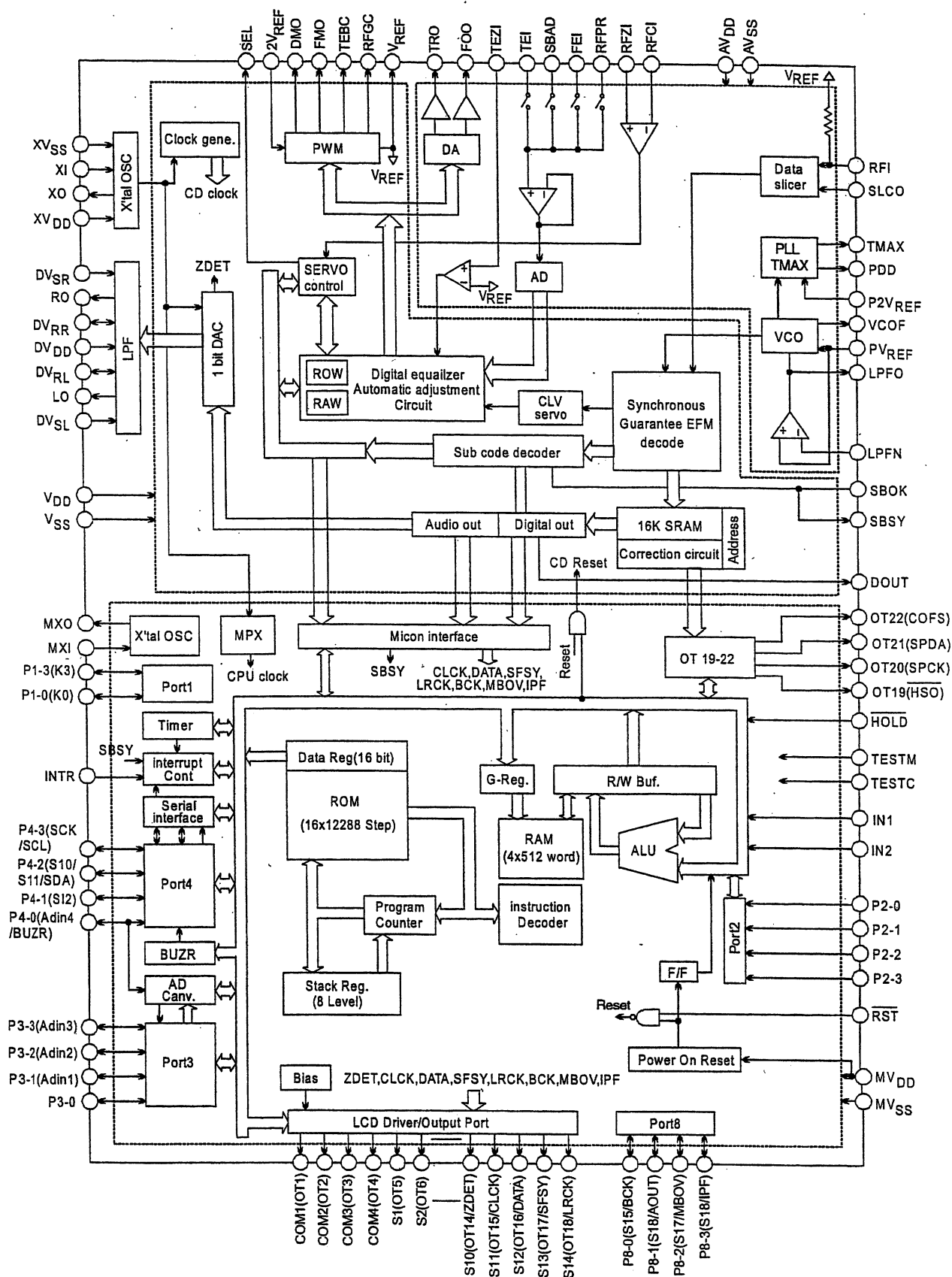


IC102 TC9257P

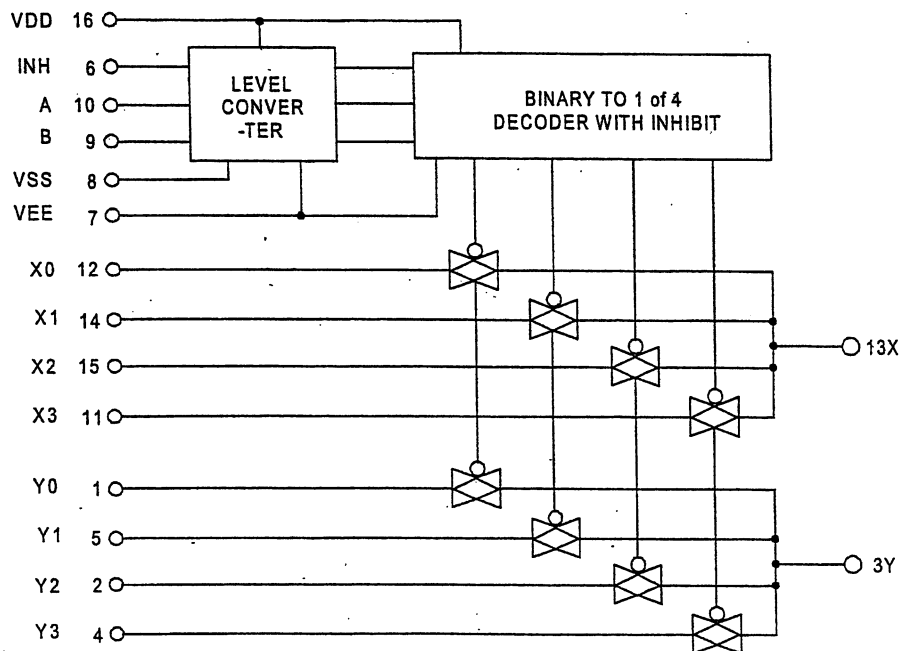


IC505 L7806CV

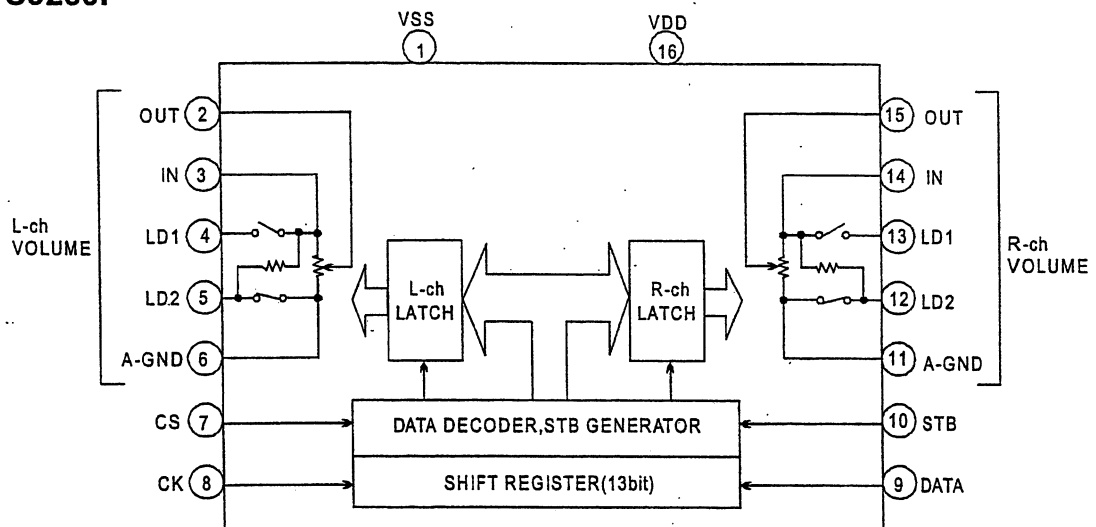




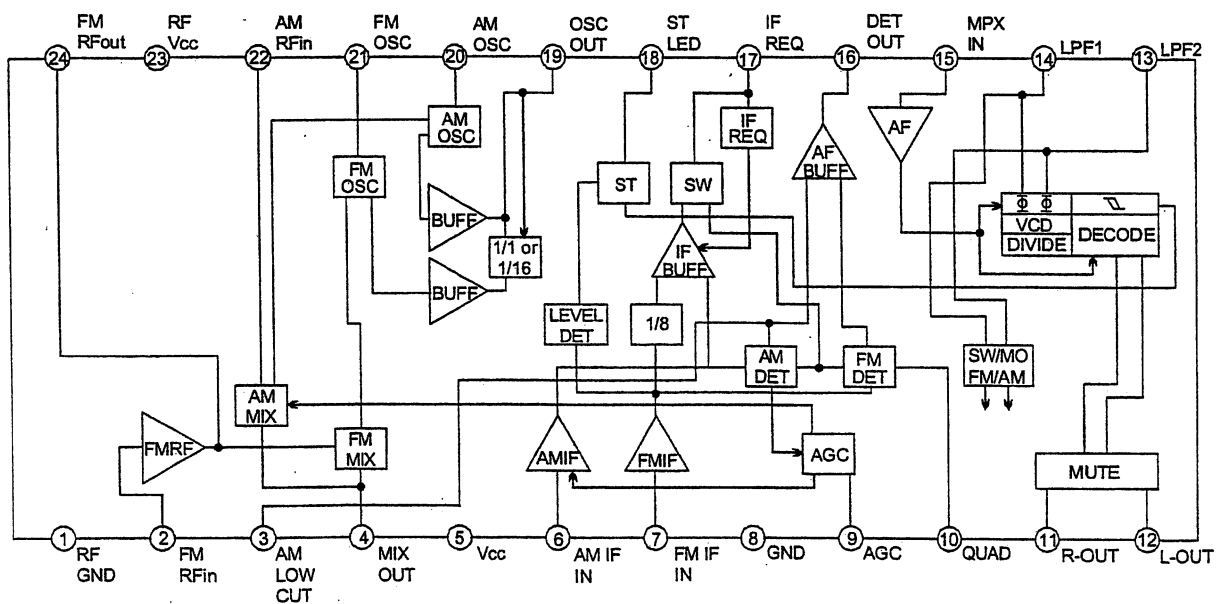
IC501 BU4052BC



IC502 TC9260P

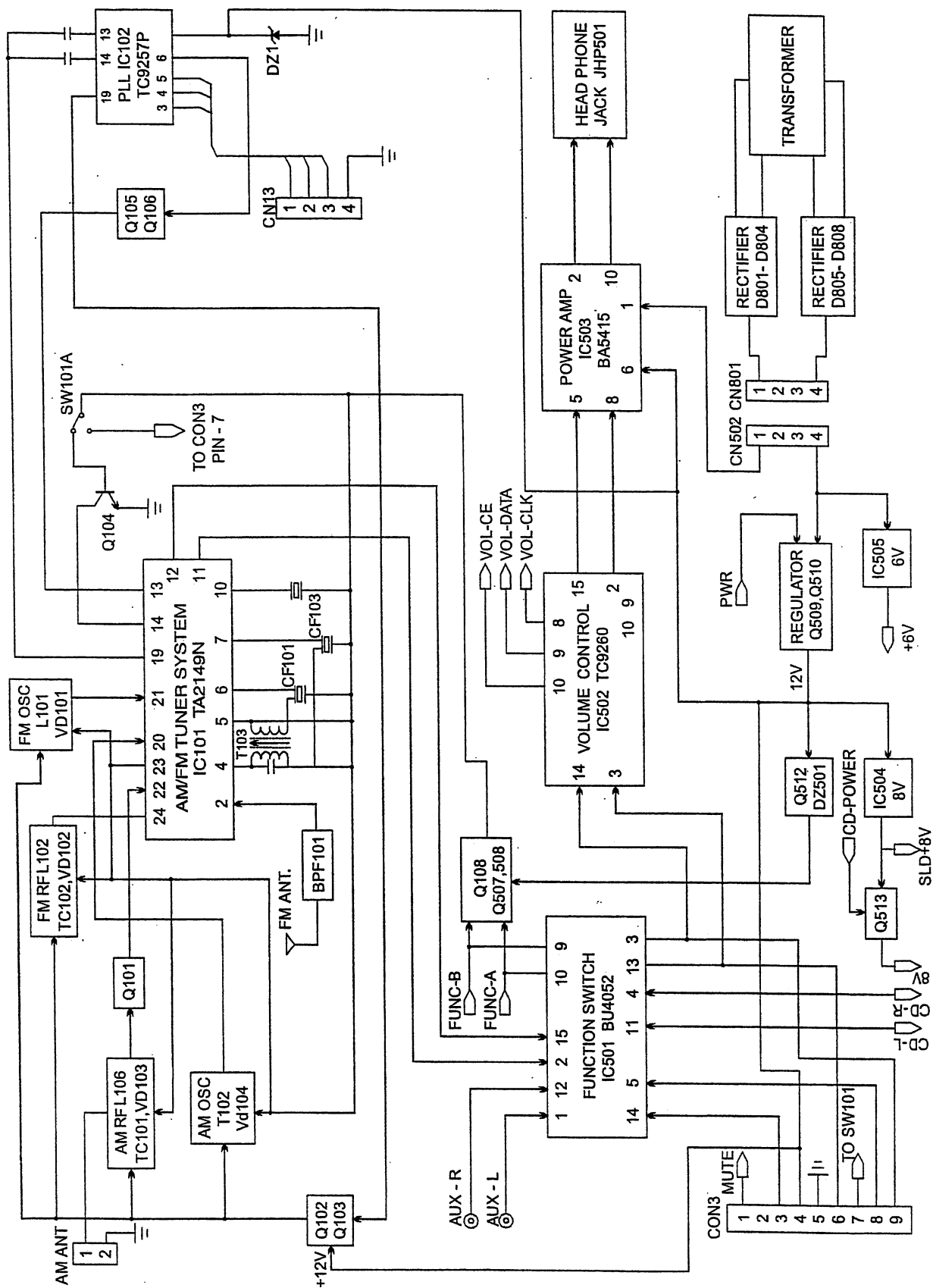


IC101 TA2149N

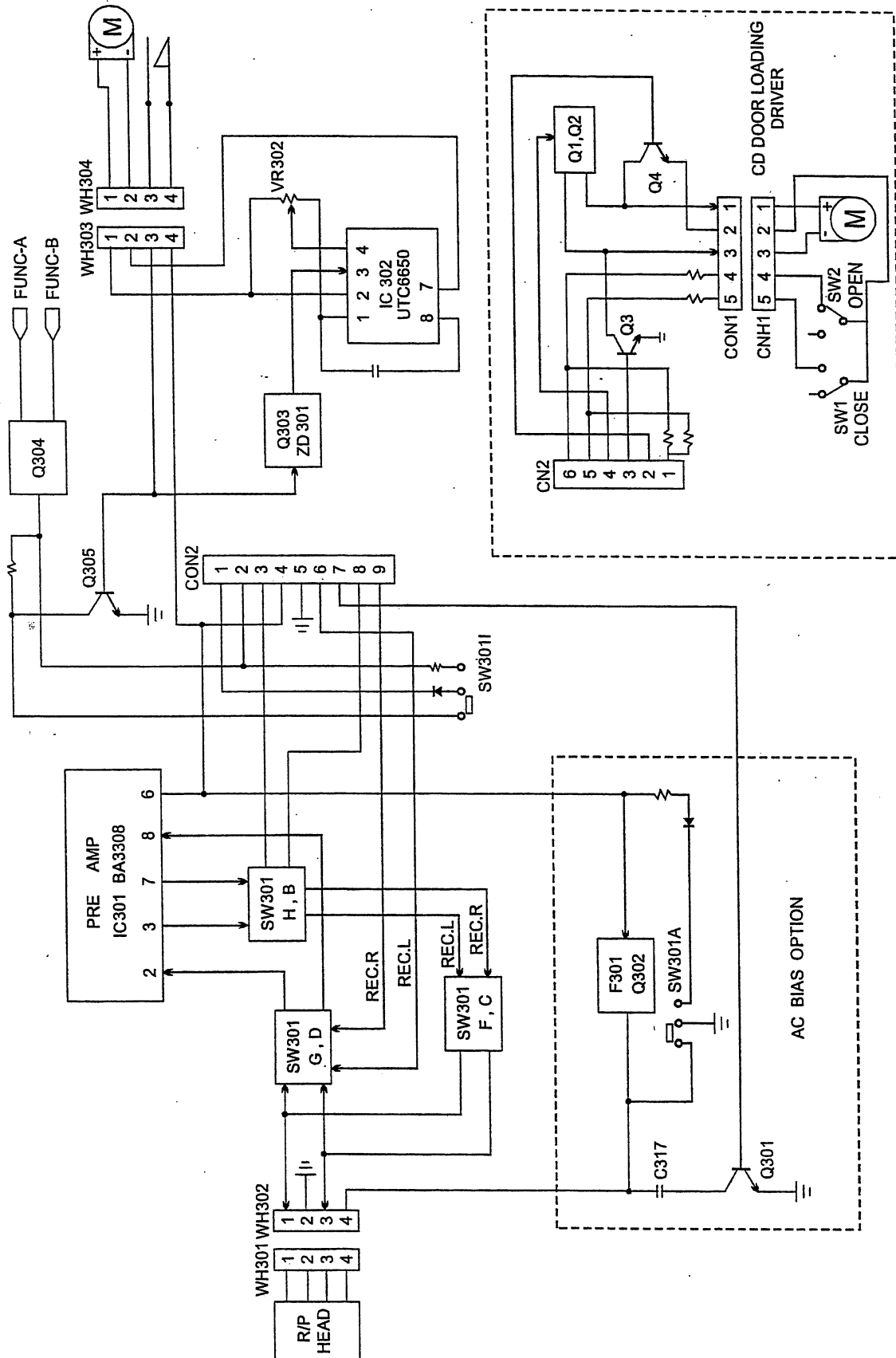


BLOCK DIAGRAMS

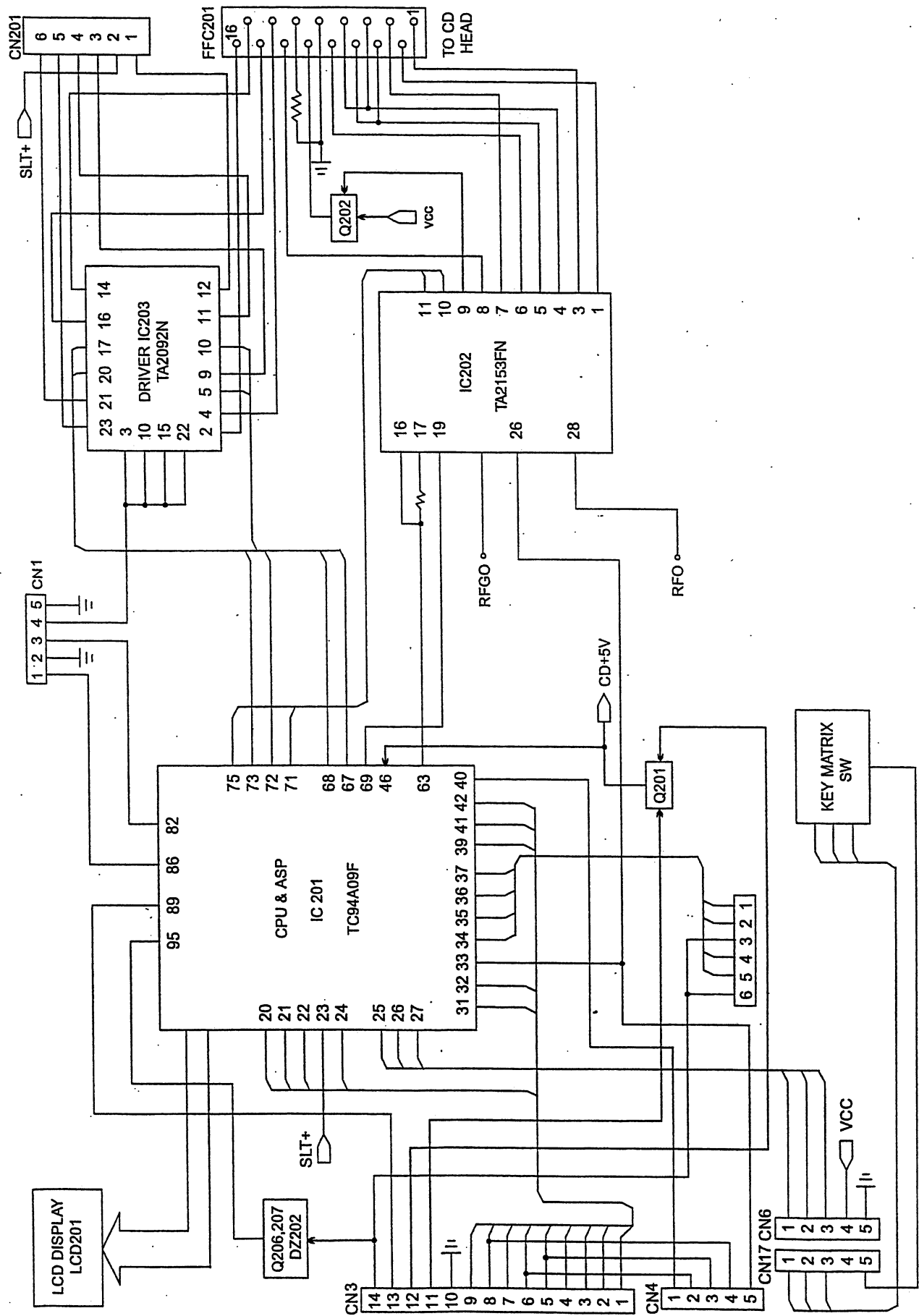
TUNER & POWER AMP. SECTION



CASSETTE & CD MOTOR SECTION



CPU & CD SECTION



EXPLODED DRAWING

